

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,747	06/20/2005	Hiroshi Yokota	050344	5871
23850 7590 12/03/2008 KRATZ, QUINTOS & HANSON, LLP 1420 K Street, N.W.			EXAMINER	
			TURNER, SONJI LUCAS	
Suite 400 WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			1797	
			MAIL DATE	DELIVERY MODE
			12/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/539 747 YOKOTA ET AL Office Action Summary Examiner Art Unit SONJI TURNER 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 25 August 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/0E)
Paper No(s)/Mail Date ________

Attachment(s)

Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

Application/Control Number: 10/539,747 Page 2

Art Unit: 1797

DETAILED ACTION

Claim Rejections - 35 USC § 102

Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Elonen '789 (US Patent 5.711.789).

Regarding claim 1, Elonen '789 teaches a gas-liquid separator for gas-liquid separation performed by centrifugal force of an impeller mounted on a shaft which rotates in a casing with a discharge impeller part; a discharge outlet of the casing disposed in a position opposite the discharge impeller part; another axial end of the impeller; and exhaust outlet of the casing disposed in a position opposite the impeller part; a vacuum means connected to the exhaust outlet; and a suction inlet of the casing disposed in a position between the discharge outlet and the exhaust outlet (fig. 3; col. 6, lines 38-67; col. 7, lines 38-54; col. 8).

Regarding claim 2, Elonen '789 teaches a cleaning fluid inlet is provided near the shaft sealing of the casing where the rotating shaft penetrates (fig. 3; col. 7, lines 14-17).

Regarding claims 3 and 4, Elonen '789 teaches the inlet to the casing formed to a flow path inside the casing (fig. 3; col. 7, lines 55-60).

Regarding claims 5 and 6, Elonen '789 teaches a member which prevents the direct penetration of liquid near the rotating shaft (fig. 3; col. 8, lines 47-52).

Regarding claims 7 and 8, Elonen '789 teaches an impeller with at least one cylindrical member coaxially attached (fig. 3).

Regarding claims 9-11, Elonen '789 teaches at least on of fluid throttle means, heating means, and accumulation means in the passage of the suction inlet (fig. 3). An accumulation space is located upstream of the impeller.

Application/Control Number: 10/539,747

Art Unit: 1797

Regarding claims 12-14, Elonen '789 teaches a cavitation causing means in the passage (fig. 3).

Regarding claims 15-17, Elonen '789 teaches protection means in the exhaust passage from the exhaust outlet to the vacuum means (col. 9, line 1-5).

Regarding claims 18-20, Elonen '789 teaches that at least a portion of the discharged fluid from the discharge outlet is returned to the suction inlet (fig. 3; col. 7, lines 14-17).

Response to Remarks

Applicant's remarks filed August 25, 2008 have been fully considered but are not persuasive. Figure 3 of Elonen '789 is a schematic view of an entire system that relates to a method and an apparatus for separating fluid. Elonen '789 teaches each of the structural limitations recited in instant claim 1. Applicant's remark on page 8 where claim 1 requires "the impeller being formed to slide on the inner wall of the casing" relates to an intended use of the impeller, as a physical structure for the impellor has not been given. Intended use has been continously held not to be germane to determining the patentability of the apparatus, In re In re Finsterwalder, 168 USPQ 530 (CCPA 1971). Purpose to which apparatus is to be put and expression relating apparatus to contents thereof during intended operation are not significant in determining patentability of an apparatus claim, Ex parte Thibault, 164 USPQ 666 (PTO Board of Appeals 1969). Inclusion of the material worked upon by a structure being claimed does not impart patentability to the claims, In re Otto et al., 136 USPO 458 (CCPA 1963), A recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the structural limitations of that claimed, Ex parte Masham, 2 USPQ 2d 1647 (PTO Board of Appeals 1987). In

Application/Control Number: 10/539,747

Art Unit: 1797

apparatus, article, and composition claims, intended use language must result in a structural difference to patentably distiguish over the prior art. See MPEP § 2112 and *In re Schreiber*, 44 USPO2d 1429 (Fed. Cir. 1997).

Applicant's remarks, see page 7, with respect to the specification and claim 9 have been fully considered and are persuasive. The objections of the specification and claim 9 have been withdrawn.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sonji Turner whose telephone number is 571-272-1203. The examiner can normally be reached on Monday - Friday, 10:00 am – 2:00 pm (EST).

Art Unit: 1797

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Duane S. Smith/ Supervisory Patent Examiner, Art Unit 1797

st

12/01/08